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## MALEIC HYDRAZIDE

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Mr. Lougheed said that there has been no proof offered that a good cigarette cannot be made with MH-treated tobacco, although cigarette manufacturers may find it necessary to make adjustments in their operations for processing MH-treated tobacco.

In conclusion, he said that the weight of the evidence indicates that when maleic hydrazide is properly used in accordance with Naugatuck's latest recommendations, tobacco so treated will, on the average, be as good as, or better than hand suckered tobacco and will not differ significantly from it in taste and aroma.

Norman A. MacRae, Associate Director of Crops, Research

Branch, Canada Department of Agriculture, appeared on the panel and reported on tests conducted with maleic hydrazide. He reported that treatments of maleic hydrazide on cigar tobacco supressed sucker growth and increased yield, but decreased percentage content of total alkaloids, nicotine, calcium, and total ash in the cured leaf, while not affecting the leaf content of nitrogen, nicotine, potassium, phosphorous, magnesium, and chlorine. In other tests, he pointed out, MH treatment seemed to produce an oily condition in the midribs and occasionally in part of the leaf tissue and tips. This condition favors the development of moulds and wet rot.

In spite of its shortcomings,

Mr. MacRae said, the use of maleic hydrazide offers certain definite but limited advantages to the grower, such as economy and increased yield. These advantages, however, are meaningless if the manufacturer is unable to use such a product, he recognized.

Owing to the variability of some of the experimental results obtained and the obvious necessity for additional information, the Canada Department of Agriculture has, to date, refrained from recommending the use of maleic hydrazide as a means of controlling sucker growth on tobacco, Mr. MacRae said. It is hoped, he continued, that suitable measures may be found that will shortly eliminate many of the deleterious effects of MH. Investigational work to this end is continuing on a large scale.